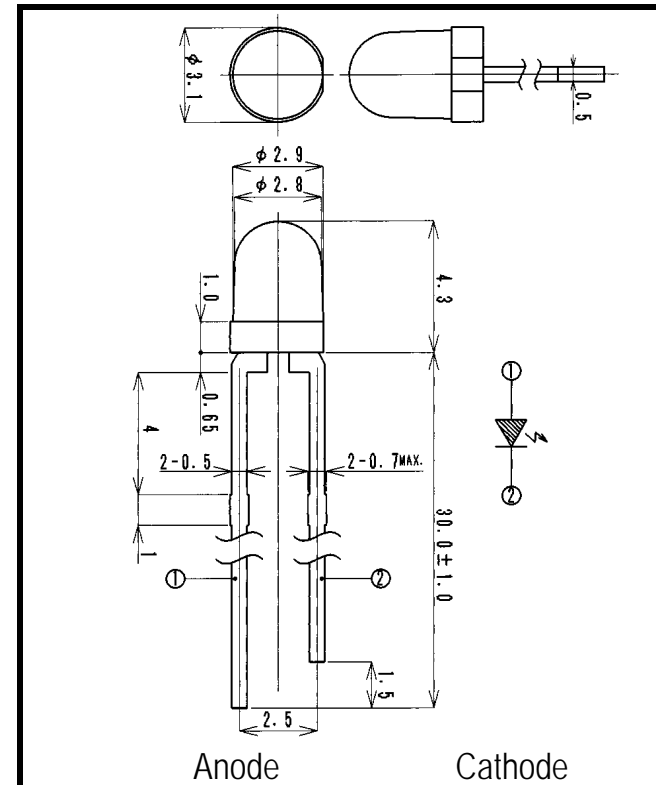
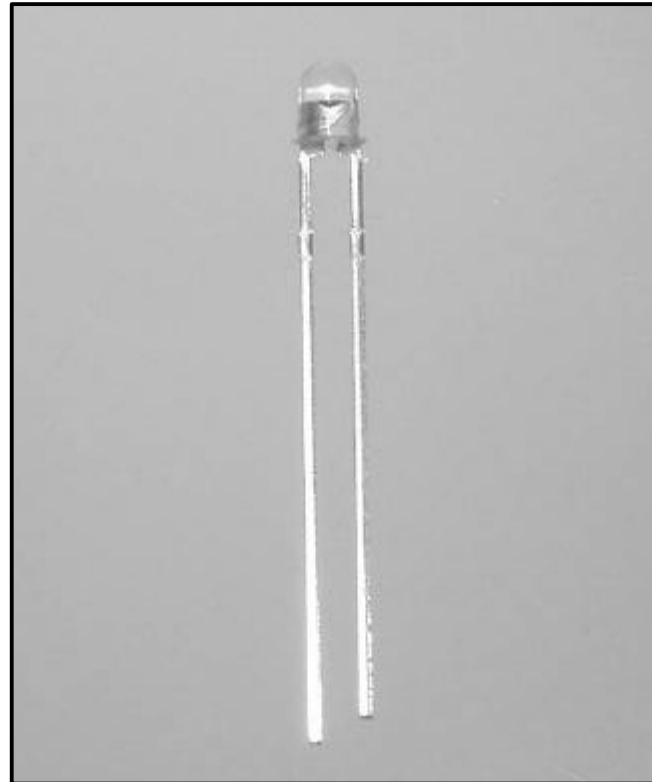


# VSF562C1

# Visible Light Emitting Diode



Anode Cathode  
Dimensions (Unit:mm)

## 2. ELECTRICAL & OPTICAL CHARACTERISTICS (Ta=25 °C)

ITEM	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	0.15	0.25		mW
Luminous Intensity	Iv	IF=20mA		60		mcd
Forward Voltage	VF	IF=20mA		2.3	2.7	V
Reverse Current	IR	VR=5V			100	μA
Peak Wavelength	λ	IF=20mA		562		nm
Spectral Line Half Width		IF=20mA		11		nm
Half Intensity Beam Angle		IF=20mA		±30		deg.
Rise Time	Tr	IFP=20mA		-		nS
Fall Time	Tf	IFP=20mA		-		nS
Junction Capacitance	Cj	1MHz, V=0V		10		pF
Temp. Coefficient of Iv	Iv/T	IF=10mA		-0.7		%/°C
Temp. Coefficient of VF	Vf/T	IF=10mA		-2.6		mV/°C

- FEATURES**
- High Luminous Intensity
  - Wide Illumination
  - Compact
- APPLICATIONS**
- Displays
  - Indicators
  - Decorations

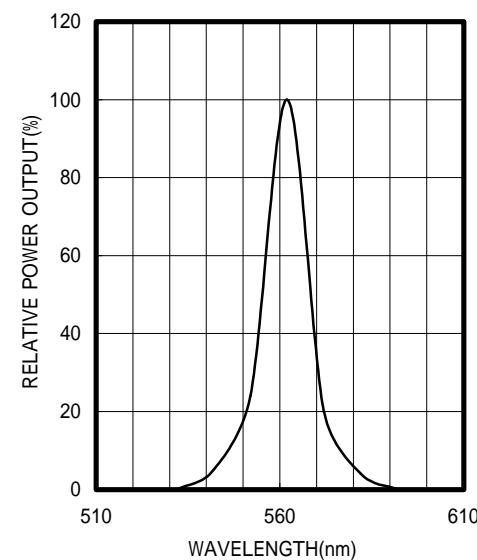
## 1. ABSOLUTE MAXIMUM RATINGS(Ta=25 °C)

ITEM	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	50	mA
Forward Current (Pulse)*1	IFP	0.5	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	140	mW
Operating Temp.	Topr	-20 TO 80	
Storage Temp.	Tstg	-30 TO 100	
Junction Temp.	Tj	100	
Lead Soldering Temp.*2	Tls	260	

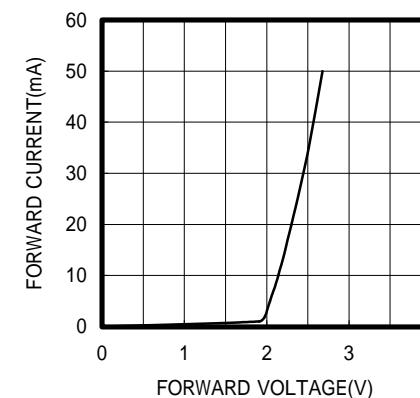
\*1:Tw=10μs,T=10mS

\*2:Time 5 Sec max,Position:Up to 3mm from the body

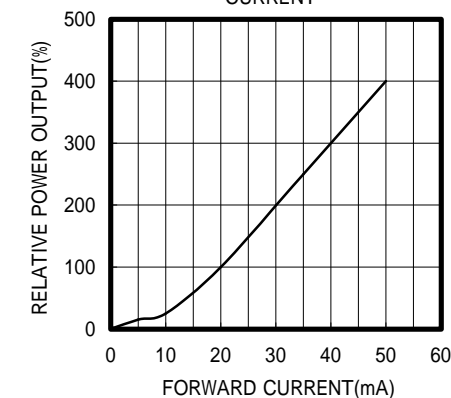
SPECTRAL OUTPUT



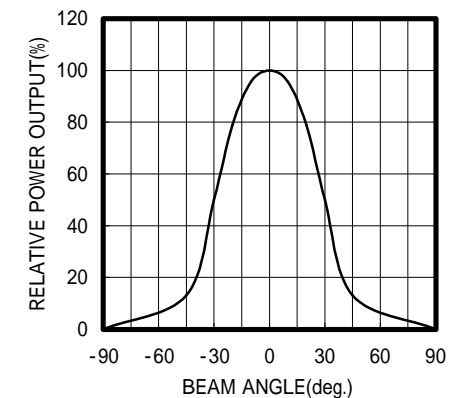
FORWARD I-V CHARACTERISTICS



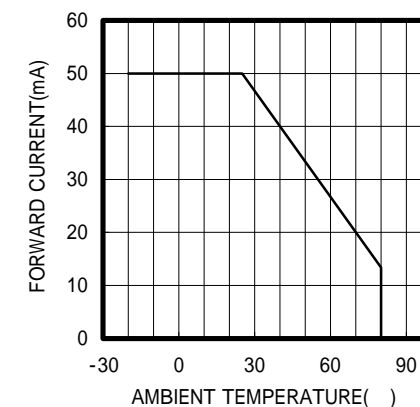
RELATIVE POWER vs FORWARD CURRENT



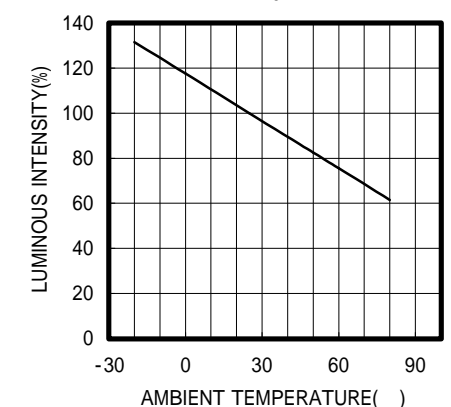
RADIATION PATTERN



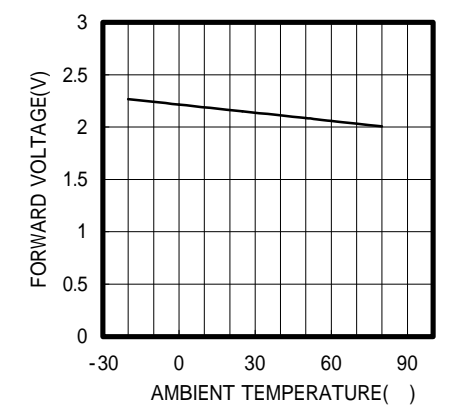
THERMAL DERATING CURVE



LUMINOUS INTENSITY vs TEMPERATURE  
IF=10mA



FORWARD VOLTAGE vs TEMPERATURE  
IF=10mA



**OPTRANS**

2-6-11 MASUKATA, TAMA-KU, KAWASAKI 214-0032. JAPAN  
TEL.81(44)932-6491 / FAX.81(44)932-8281  
E-mail optrans@mb.kcom.ne.jp